

Land Capability Classification

The land capability classification system is used to show, in a general way, the suitability of soils for cropland. It is a three-category interpretative system. The two highest categories, class and subclass, give broad perspective of the suitability of map units for certain crops or pasture. These categories indicate the degree and kinds of limitations for these uses. The system evaluates soils for mechanized farming systems that produce the more common cultivated field crops, such as corn, small grains, cotton, hay, and field grown vegetables.

Capability Class

The highest category of the system is the capability class. The capability classes are groups of soils that have the same general suitability for the broad kinds of use common on farms and ranches. There are eight classes designated by Roman numerals I through VIII.

Classes I, II, III, and IV are suitable for mechanized production of common field crops if properly managed, and for production of pasture and woodland. The degree of limitation for production of cultivated crops increases progressively for class I to class IV. Limitations may affect production as well as the risk of permanent soil deterioration, as by erosion.

Classes V, VI, and VII are generally not suited to mechanized production of common field crops without special management, but are suitable for permanent cover such as grasses and trees. The severity of the soil limitations for crops increases from class V to class VII. Areas in class VIII are generally not suitable for crops, pasture, or wood products without management that is impractical. Class VIII areas may have potential for other uses, such as recreation or wildlife habitat.

Capability Subclass

The subclass identifies the dominant kind of limitation in the class. They are designated by adding a small letter, e, w, s, or c, to the class numeral, for example, IIe. The letter e shows that the main limitation is risk of erosion unless a close-growing plant cover is maintained; w shows that water in or on the soil interferes with plant growth or cultivation (in some soils the wetness can be partly corrected by artificial drainage); s shows that the soil is limited mainly because it is shallow, droughty, or stony; and c, used in only some parts of the United States, shows that the chief limitation is climate that is very cold or very dry.

There are no subclasses in class I because the soils of this class have few limitations. The soils in class V are subject to little or no erosion, but they have other limitations that restrict their use mainly to pasture, woodland, wildlife habitat, or recreation. Class V contains only the subclasses indicated by w, s, or c.

Capability Unit

The lowest category of the capability system is the capability unit. Capability units are soil groups within a subclass. The soils in a capability unit are enough alike to be suited to the same crops and pasture plants, to require similar management, and to have similar productivity. Units are designated by Arabic numerals, for example IIe-2. This category is not used in all soil surveys.

Crop Yield Estimates

The average yields per acre that can be expected of the principal crops under a high level of management are presented in the following table. In any given year, yields may be higher or lower than those indicated in the table because of variations in rainfall and other climatic factors. The yields are based mainly on the experience and records of farmers, conservationists, and extension agents. Available yield data from nearby counties and results of field trials and demonstrations are also considered.

The management needed to obtain the indicated yields of the various crops depends on the kind of soil and the crop. Management can include drainage, erosion control, and protection from flooding; the proper planting and seeding rates; suitable high-yielding crop varieties; appropriate and timely tillage; control of weeds, plant diseases, and harmful insects; favorable soil reaction and optimum levels of nitrogen, phosphorus, potassium, and trace elements for each crop; effective use of crop residue, barnyard manure, or green manure crops; and harvesting that insures the smallest possible loss.

The estimated yields reflect the productive capacity of each soil for each of the principal crops. Yields are likely to increase as new production technology is developed. The productivity of a given soil compared with that of other soils, however, is not likely to change. Absence of a yield indicates that the soil is not suited to the crop or the crop is generally not grown on the soil.

Land Capability and Yields per Acre of Crops

Franklin County Area And Part Of Somerset County, Maine

Yields are those that can be expected under a high level of management. They are for nonirrigated areas. Absence of a yield indicates that the soil is not suited to the crop or the crop generally is not grown on the soil.

Map Symbol and Soil Name	Land Capability	Apples	Corn Silage	Irish Potatoes
		Bu	Tons	Cwt
AdB: Adams	3s	---	16.00	---
AdC: Adams	4e	---	16.00	---
AdD: Adams	6e	---	---	---
AED: Adams	7e	---	---	---
Colton	7e	---	---	---
AFC: Adams	4e	---	---	---
Croghan	2w	---	---	---
AgA: Allagash	1	750.00	22.00	360.00
AgB: Allagash	2e	750.00	22.00	360.00
AgC: Allagash	3e	750.00	20.00	360.00
BeB: Berkshire	2e	800.00	22.00	330.00
BeC: Berkshire	3e	800.00	20.00	300.00
BkC: Berkshire	6s	---	---	---
BkD: Berkshire	6s	---	---	---
BoB: Boothbay	2w	---	22.00	270.00
BoC: Boothbay	3e	---	20.00	270.00
BpB: Brayton	4w	---	---	---

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Land Capability and Yields per Acre of Crops - Continued

Franklin County Area And Part Of Somerset County, Maine

Map Symbol and Soil Name	Land Capability	Apples	Corn Silage	Irish Potatoes
		Bu	Tons	Cwt
BrB: Brayton	7s	---	---	---
BrC: Brayton	7s	---	---	---
BSB: Brayton	7s	---	---	---
Colonel	6s	---	---	---
BTB: Brayton	7s	---	---	---
Peacham	5s	---	---	---
Markey	5w	---	---	---
BW: Bucksport	7w	---	---	---
Markey	5w	---	---	---
Ca: Charles	4w	---	---	---
CG: Charles	4w	---	---	---
Medomak	6w	---	---	---
Cornish	3w	---	---	---
ChB: Chesuncook	2w	600.00	18.00	290.00
ChC: Chesuncook	3e	550.00	16.00	260.00
ChD: Chesuncook	4e	500.00	---	---
CkB: Chesuncook	6s	---	---	---
CkC: Chesuncook	6s	---	---	---
CkD: Chesuncook	6s	---	---	---
CLD:				

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Land Capability and Yields per Acre of Crops - Continued

Franklin County Area And Part Of Somerset County, Maine

Map Symbol and Soil Name	Land Capability	Apples	Corn Silage	Irish Potatoes
		Bu	Tons	Cwt
CLD:				
Chesuncook	6s	---	---	---
Telos	6s	---	---	---
CnB:				
Colonel	3w	---	16.00	---
CnC:				
Colonel	3e	---	14.00	---
CoB:				
Colonel	6s	---	---	---
CoC:				
Colonel	6s	---	---	---
CPC:				
Colonel	6s	---	---	---
Dixfield	6s	---	---	---
CsB:				
Colton	3s	---	12.00	---
CsC:				
Colton	4e	---	---	---
CsD:				
Colton	7e	---	---	---
CTC:				
Colton	4e	---	---	---
Sheepscot	2e	---	---	---
CuB:				
Croghan	2w	---	14.00	---
DfB:				
Dixfield	2w	600.00	20.00	270.00
DfC:				
Dixfield	3e	550.00	18.00	240.00
DfD:				
Dixfield	4e	500.00	16.00	---
DgB:				
Dixfield	6s	---	---	---
DgC:				

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Land Capability and Yields per Acre of Crops - Continued

Franklin County Area And Part Of Somerset County, Maine

Map Symbol and Soil Name	Land Capability	Apples	Corn Silage	Irish Potatoes
		Bu	Tons	Cwt
DgC: Dixfield	6s	---	---	---
DgD: Dixfield	6s	---	---	---
DMC: Dixfield	6s	---	---	---
Marlow	6s	---	---	---
DTC: Dixfield	3e	---	---	---
Colonel	3w	---	---	---
DUD: Dixfield	6s	---	---	---
Colonel	6s	---	---	---
ECC: Elliottsville	6s	---	---	---
Chesuncook	6s	---	---	---
Telos	6s	---	---	---
EMC: Elliottsville	6s	---	---	---
Monson	6s	---	---	---
EME: Elliottsville	6s	---	---	---
Monson	6s	---	---	---
EtB: Elliottsville	2e	600.00	20.00	275.00
Thorndike	2s	500.00	16.00	270.00
EtC: Elliottsville	3e	550.00	18.00	225.00
Thorndike	3e	450.00	14.00	240.00
EtD: Elliottsville	4e	500.00	16.00	175.00
Thorndike	4e	400.00	---	---

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Land Capability and Yields per Acre of Crops - Continued

Franklin County Area And Part Of Somerset County, Maine

Map Symbol and Soil Name	Land Capability	Apples	Corn Silage	Irish Potatoes
		Bu	Tons	Cwt
Fr: Fryeburg	1	---	26.00	330.00
HeC: Hermon	6s	---	---	---
HeD: Hermon	6s	---	---	---
HMC: Hermon	6s	---	---	---
Monadnock	6s	---	---	---
HME: Hermon	7s	---	---	---
Monadnock	7s	---	---	---
Lc: Lovewell	2w	---	25.00	310.00
Cornish	3w	---	18.00	250.00
Ld: Lovewell	2w	---	23.00	290.00
Cornish	3w	---	18.00	250.00
LmE: Lyman	7s	---	---	---
Rock Outcrop	8s	---	---	---
Tunbridge	7s	---	---	---
LNC: Lyman	6s	---	---	---
Tunbridge	6s	---	---	---
Abram	7s	---	---	---
LNE: Lyman	7s	---	---	---
Tunbridge	7s	---	---	---
Abram	7s	---	---	---
LyC: Lyman	6s	---	---	---

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Land Capability and Yields per Acre of Crops - Continued

Franklin County Area And Part Of Somerset County, Maine

Map Symbol and Soil Name	Land Capability	Apples	Corn Silage	Irish Potatoes
		Bu	Tons	Cwt
LyC: Tunbridge	6s	---	---	---
Rock Outcrop	8s	---	---	---
MaB: Madawaska	2w	650.00	22.00	270.00
MDB: Madawaska	2w	---	---	270.00
Allagash	2e	---	22.00	360.00
MeB: Marlow	2e	1000.00	22.00	330.00
MeC: Marlow	3e	1000.00	20.00	300.00
MeD: Marlow	4e	700.00	18.00	---
MfB: Marlow	6s	---	---	---
MfC: Marlow	6s	---	---	---
MfD: Marlow	6s	---	---	---
MGD: Marlow	6s	---	---	---
Dixfield	6s	---	---	---
MhB: Masardis	3s	---	14.00	250.00
MhC: Masardis	4s	---	12.00	230.00
MhD: Masardis	7s	---	---	---
MKE: Masardis	7s	---	---	---
Adams	7e	---	---	---
MLC:				

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Land Capability and Yields per Acre of Crops - Continued

Franklin County Area And Part Of Somerset County, Maine

Map Symbol and Soil Name	Land Capability	Apples	Corn Silage	Irish Potatoes
		Bu	Tons	Cwt
MLC:				
Masardis	3s	---	---	---
Sheepscot	2e	---	---	---
Mm:				
Medomak	6w	---	---	---
MNC:				
Monadnock	6s	---	---	---
Berkshire	6s	---	---	---
MNE:				
Monadnock	7s	---	---	---
Berkshire	7s	---	---	---
MrB:				
Monarda	4w	---	---	---
MsB:				
Monarda	7s	---	---	---
MTB:				
Monarda	7s	---	---	---
Burnham	7s	---	---	---
Bucksport	7w	---	---	---
MUB:				
Monarda	7s	---	---	---
Telos	6s	---	---	---
MVC:				
Monson	6s	---	---	---
Elliottsville	6s	---	---	---
Telos	6s	---	---	---
Nb:				
Naumburg	4w	---	---	---
NS:				
Naumburg	4w	---	---	---
Searsport	5w	---	---	---
NvB:				

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Land Capability and Yields per Acre of Crops - Continued

Franklin County Area And Part Of Somerset County, Maine

Map Symbol and Soil Name	Land Capability	Apples	Corn Silage	Irish Potatoes
		Bu	Tons	Cwt
NvB: Nicholville	2e	---	20.00	270.00
NvC: Nicholville	3e	---	16.00	240.00
PeB: Peacham	5s	---	---	---
Brayton	7s	---	---	---
Pr: Pits	8s	---	---	---
Ps: Pits	8s	---	---	---
RRE: Ricker	7s	---	---	---
Rock Outcrop	8s	---	---	---
RSE: Ricker	7s	---	---	---
Saddleback	7s	---	---	---
RYE: Rock Outcrop	8s	---	---	---
Abram	7s	---	---	---
Lyman	7s	---	---	---
SAE: Saddleback	7s	---	---	---
Mahoosuc	8s	---	---	---
Sisk	7s	---	---	---
SKD: Sisk	7s	---	---	---
Surplus	7s	---	---	---
Sn: Sunday	3s	---	12.00	230.00
SRC: Surplus	7s	---	---	---

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Land Capability and Yields per Acre of Crops - Continued

Franklin County Area And Part Of Somerset County, Maine

Map Symbol and Soil Name	Land Capability	Apples	Corn Silage	Irish Potatoes
		Bu	Tons	Cwt
SRC: Bemis	7s	---	---	---
SSC: Surplus	7s	---	---	---
Saddleback	7s	---	---	---
Ricker	7s	---	---	---
SVC: Surplus	7s	---	---	---
Sisk	7s	---	---	---
Sw: Swanville	4w	---	---	---
SYB: Swanville	4w	---	---	---
Boothbay	2w	---	---	---
TeB: Telos	3w	---	18.00	---
TeC: Telos	3e	---	14.00	---
TfB: Telos	6s	---	---	---
TfC: Telos	6s	---	---	---
THC: Telos	6s	---	---	---
Chesuncook	6s	---	---	---
TLB: Telos	8s	---	---	---
Monarda	8s	---	---	---
TMB: Telos	6s	---	---	---
Monarda	7s	---	---	---
Monson	6s	---	---	---
TOC:				

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Land Capability and Yields per Acre of Crops - Continued

Franklin County Area And Part Of Somerset County, Maine

Map Symbol and Soil Name	Land Capability	Apples	Corn Silage	Irish Potatoes
		Bu	Tons	Cwt
TOC:				
Thorndike	6s	---	---	---
Elliottsville	6s	---	---	---
TOE:				
Thorndike	7s	---	---	---
Elliottsville	7s	---	---	---
TRC:				
Tunbridge	6s	---	---	---
Berkshire	6s	---	---	---
Dixfield	6s	---	---	---
TuB:				
Tunbridge	2e	550.00	20.00	275.00
Lyman	3e	---	14.00	200.00
TuC:				
Tunbridge	3e	550.00	18.00	275.00
Lyman	4e	---	12.00	225.00
Ud:				
Udorthents	---	---	---	---
Urban Land	8s	---	---	---

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